SUBJECT INDEX

Acid blocking, p. 106
Aging modelling, p. 532
Aging of PUR-foams, p. 210
Allophanate activity, p. 277
All-water blown, p. 277
Amid, p. 548
Amine catalysts, p. 106
Argon, p. 38
Auto safety applications, p. 479
Azeotrope, p. 330
Azeotrope blowing agent, p. 330
Azeotropic blowing agent, p. 330
Biuret activity, p. 277
Blowing activity, p. 277
Blowing agents, pp. 121, 210, 217, 244, 313, 330, 375, 435, 513
Blowing agent concentration, p. 227
Blowing agent emission rate, p. 227
Blowing agent solubility, p. 154
Blowing agent stability, p. 154
Carbodiimide, p. 548
Carbon dioxide removal, p. 565
Catalysts for elastomer systems, p. 106
Catalysts for foam systems, p. 106
Catalytic activity, p. 277
Cell diameter, p. 8
Cell gas, p. 375
Cellular plastic insulation, pp. 217, 532
CFC, pp. 217, 356
CFC-11, p. 244
CO_2 blowing agent, pp. 8, 38
Continuous panels, p. 8
Core material, p. 24
Crosslinked polyacrylate, p. 74
Cryogenic insulation, p. 121
Cryogenic tank insulation, p. 121
Cyclopentane, pp. 177, 210, 330
Delayed action catalysts, p. 106
Diffusion coefficient, p. 244
Dimensional stability, p. 8
Dimension-dependent aging, p. 532
Emulsion formulation, p. 48
Energy management, p. 479
Facing, p. 532
Factory mutual calorimeter, p. 137
Fire performance, p. 48
Flowability, p. 177
Foam, pp. 74, 330, 548
  energy absorbing, p. 479
  flame retarded, p. 260
  HFC, p. 154
  HFC appliance, p. 154
  high resilience slabstock, pp. 260, 414
  hydrocarbon-blown, p. 389
  integral skin, p. 277
  isocyanate-based, p. 330
  isocyanurate, pp. 121, 548
  low density, p. 38
  non-CFC rigid, p. 445
  open cell, pp. 24, 121
  polyisocyanurate, pp. 137, 244, 389
  polystyrene, p. 38
  polyurethane, pp. 375, 565, 580
  polyurethane energy absorbing, p. 479
  polyurethane laminate board, p. 389
  PUR, pp. 210, 217, 227, 244, 260
  rigid, pp. 8, 121, 177, 330, 435, 445
  rigid energy absorbing, p. 479
  rigid open cell, p. 121
  rigid polyurethane, pp. 24, 48, 210, 513
  slabstock, p. 456
  thermal insulating, p. 356
  thermoplastic, p. 38
  urethane, p. 330
  urethane-modified isocyanurate, p. 121

SUBJECT INDEX

Acid blocking, p. 106
Aging modelling, p. 532
Aging of PUR-foams, p. 210
Allophanate activity, p. 277
All-water blown, p. 277
Amid, p. 548
Amine catalysts, p. 106
Argon, p. 38
Auto safety applications, p. 479
Azeotrope, p. 330
Azeotrope blowing agent, p. 330
Azeotropic blowing agent, p. 330
Biuret activity, p. 277
Blowing activity, p. 277
Blowing agents, pp. 121, 210, 217, 244, 313, 330, 375, 435, 513
Blowing agent concentration, p. 227
Blowing agent emission rate, p. 227
Blowing agent solubility, p. 154
Blowing agent stability, p. 154
Carbodiimide, p. 548
Carbon dioxide removal, p. 565
Catalysts for elastomer systems, p. 106
Catalysts for foam systems, p. 106
Catalytic activity, p. 277
Cell diameter, p. 8
Cell gas, p. 375
Cellular plastic insulation, pp. 217, 532
CFC, pp. 217, 356
CFC-11, p. 244
CO_2 blowing agent, pp. 8, 38
Continuous panels, p. 8
Core material, p. 24
Crosslinked polyacrylate, p. 74
Cryogenic insulation, p. 121
Cryogenic tank insulation, p. 121
Cyclopentane, pp. 177, 210, 330
Delayed action catalysts, p. 106
Diffusion coefficient, p. 244
Dimensional stability, p. 8
Dimension-dependent aging, p. 532
Emulsion formulation, p. 48
Energy management, p. 479
Facing, p. 532
Factory mutual calorimeter, p. 137
Fire performance, p. 48
Flowability, p. 177
Foam, pp. 74, 330, 548
  energy absorbing, p. 479
  flame retarded, p. 260
  HFC, p. 154
  HFC appliance, p. 154
  high resilience slabstock, pp. 260, 414
  hydrocarbon-blown, p. 389
  integral skin, p. 277
  isocyanate-based, p. 330
  isocyanurate, pp. 121, 548
  low density, p. 38
  non-CFC rigid, p. 445
  open cell, pp. 24, 121
  polyisocyanurate, pp. 137, 244, 389
  polystyrene, p. 38
  polyurethane, pp. 375, 565, 580
  polyurethane energy absorbing, p. 479
  polyurethane laminate board, p. 389
  PUR, pp. 210, 217, 227, 244, 260
  rigid, pp. 8, 121, 177, 330, 435, 445
  rigid energy absorbing, p. 479
  rigid open cell, p. 121
  rigid polyurethane, pp. 24, 48, 210, 513
  slabstock, p. 456
  thermal insulating, p. 356
  thermoplastic, p. 38
  urethane, p. 330
  urethane-modified isocyanurate, p. 121

Foam extrusion, p. 38
Forced cooling, p. 456
Frothing control, p. 8
Gas chromatography, p. 375
Gas transfer, p. 532
Gelling activity, p. 277
Glycol ethers, p. 74
HCFC, pp. 177, 356
HCFC-22, p. 244
HCFC-141b, p. 137
Hexafluorobutane, p. 435
HFA-combination blowing agents, p. 190
HFC-134a blowing agent, pp. 8, 154
HFC-143, p. 513
HFC 236ea, p. 313
HFC 245ca, p. 313
HFC-356, p. 435
High resilience foam catalysis, p. 106
Hydrofluorocarbons, pp. 154, 313
Imide, p. 548
Impact energy, p. 479
Insulation, p. 435
Isocyanate, p. 330
Isocyanurate, p. 548
Isocyanurate activity, p. 277
k-factor aging, p. 445
Lamination, p. 48
Long-term aging, p. 532
Long-term thermal performance, p. 356
Low-boiling blowing agents, (LBBAs) p. 154
Materials compatibility, p. 154
MDI, p. 414
Methylene chloride, p. 121
Methyl ethyl ketone, p. 330
Methyl formate, p. 330
Microstructure, p. 38
Modified isocyanurate, p. 548
Nitrogen, p. 38
n-pentane, p. 121
Nucleating agents, p. 38
Pentane, pp. 48, 217, 330, 580
Pentane content, p. 48
Pentane emissions, p. 48
Perfluoroalkanes, p. 210
Permeability, p. 445
Permeation, p. 154
Photoinitiator, p. 74
Photopolymerization, p. 74
Physical blowing agents, pp. 38, 313, 330
Polyacrylate, p. 74
Polyester, p. 48
Polyether, p. 48
Polyether foam catalysis, p. 106
Polyisocyanurate, pp. 137, 548
Polyols, pp. 445, 456
Polyurethane, pp. 8, 414, 435, 445
Polyurethane catalysis, p. 106
Process stability, p. 38
Reduced thermal conductivity, p. 565
Refrigerator cabinet, p. 8
Refrigerator insulation, pp. 121, 565
Replacement of HCFC-1416, p. 513
Silicone surfactant, pp. 48, 260
Slabstock technologies, p. 414
Soluble formulation, p. 48
Supercritical carbon dioxide, p. 74
Tertiary amine, p. 277
Tertiary amine catalyst, p. 177
Thermal conductivity, pp. 24, 177, 217, 532, 580
Thermal conductivity of PUR-foams, p. 210
Thermal dispersion, p. 8
Thermal insulation, p. 8
Thermosensitive nature of catalytic activity, p. 277
Triacrylate, p. 74
1,1,2-trifluoroethane, p. 513
Trimer, p. 137
Trimer conversion, p. 137
Trimethylol propane triacrylate, p. 74
Vacuum insulation panel, pp. 24, 121
Vapor thermal conductivity, p. 154
Zero ODP, pp. 8, 190
Zero ODP blowing agents, p. 154

(continued)

AUTHOR INDEX

Apen, P. G., p. 74
Ashida, K., pp. 121, 330, 548
Ball, E. E., p. 435
Barthelemy, P. P., p. 513
Bhattacharjee, D., p. 244
Bomberg, M., p. 356
Booth, J. R., p. 244
Burns, S. B., p. 137
Cancellier, V., p. 8
Cecchini, C., p. 8
Cellarosi, B., p. 8
Cicalo, K. J., p. 154
Creazzo, J. A., p. 154
Day, J., p. 565
Desnier, M. C., p. 260
Dey, S. K., p. 38
Diblitz, C., p. 106
Diblitz, K., p. 106
di Lenardo, B., p. 356
Fan, Y., pp. 217, 532
Ferrero-Heredia, M. A., p. 565
Fishback, T., p. 389
Fleurent, H., p. 580
Franklin, J. A., p. 513
Fukushima, T., p. 177
Goto, J., p. 548
Grabowski, W., p. 260
Graves, R., p. 313
Grimminger, J., p. 48
Hammel, H. S., p. 154
Harada, S., p. 177
Hendriks, R., p. 313
Isayama, Y., p. 177
Jacob, C., p. 38
Kaplan, W. A., p. 445
Kashiwame, J., p. 121
Kisaka, H., p. 277
Kitagawa, H., p. 177
Knaub, P., p. 414
Kodama, K., p. 24
Kokko, E., pp. 217, 532
Kollie, T., p. 313
Krucke, W., p. 513
Lamberts, W. M., p. 435
Leroy, A., p. 513
Liu, M., p. 313
Lowe, D. W., p. 277
MacArthur, D., p. 313
Masuda, Y., p. 24
McAfee, C. D., p. 456
McClusky, J. V., p. 456
Mispreuve, H., p. 414
Moore, D. R., p. 445
Morii, M., p. 177
Morimoto, K., p. 330
Muha, K., p. 48
Naik, B. G., p. 479
Okuzono, S., p. 277
Ramnäs, O., p. 375
Reichel, C., p. 389
Reichel, C. J., p. 190
Ridgway, D. H., p. 456
Sasaki, K., p. 548
Schindler, P., p. 154
Schmidt, E. L., p. 137
Shankland, I. R., p. 227
Sharpe, J., p. 313
Skorpenske, R. G., p. 456
Svanström, M., p. 375
Tabor, R. L., p. 445
Tamano, Y., p. 277
Tanimoto, Y., p. 24
Thijs, S., p. 580
Volkert, O., p. 210
Ward, W. J., p. 565
Wiltz, E. P., p. 456
Yufu, A., p. 330
Yuge, K., p. 24
Yu-Hallada, L. C., p. 190
Zipfel, L., p. 513